	Application No.	Applicant(s)	
Notice of Allowability	10/659,308	KINNO ET AL.	
	Examiner	Art Unit	
	Apu M. Mofiz	2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *09/20/2006*.

2. ☒ The allowed claim(s) is/are *1,2,4-12 and 14-19*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☒ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

            International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *hereto* .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

EXAMINER'S AMENDMENT

1.   Authorization for Examiner's Amendment was given by Kevin McKinley in a telephone interview on 11/15/2006.

2.   An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3.   The application has been amended as follows:

Claim 1 (Currently Amended): An identifier generating method comprising:

a canonicalization process step of subjecting document data to a canonicalization process to correct fluctuation of expression including at least one of deletion of redundant white spaces and recovery from omission of a close tag; and

an identifier generating step of generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data having been subjected to the canonicalization process in the canonicalization process step¬; and

an identity determining step of determining whether there is a common portion between one document data and another document data, based on the identifier having been generated in the identifier generating step, wherein

a cache preliminarily stores the identifier having been generated by the identifier

generating step, in correlation with the document data or a result of a predetermined process on

the document data, and

wherein the identity determining step performs a search inside the cache on the basis of

the identifier of the document data as a target for a determination on identity, which has been

generated in the identifier generating step, determines that there exists identical document data, if

the same identifier as the aforementioned identifier is present, and determines that there exists no

identical document data, if the same identifier as the aforementioned identifier is absent.

Claim 2 (Currently Amended): An identity determining method comprising:

a canonicalization process step of subjecting document data to a canonicalization process

to correct fluctuation of expression including at least one of deletion of redundant white spaces

and recovery from omission of a close tag;

an identifier generating step of generating an identifier uniquely specifying the document

data or part thereof, based on all or part of the document data having been subjected to the

canonicalization process in the canonicalization process step; and

an identity determining step of determining whether there is a common portion between

one document data and another document data, based on the identifier having been generated in

the identifier generating step-, wherein

a cache preliminarily stores the identifier having been generated by the identifier

generating step, in correlation with the document data or a result of a predetermined process on

the document data, and

wherein the identity determining step performs a search inside the cache on the basis of the identifier of the document data as a target for a determination on identity, which has been generated by the identifier generating step, determines that there exists identical document data, if the same identifier as the aforementioned identifier is present, and determines that there exists no identical document data, if the same identifier as the aforementioned identifier is absent.

Claim 3 (Cancelled):

Claim 4 (Currently Amended): An identifier transmitting method comprising:

a canonicalization process step of subjecting document data to a canonicalization process to correct fluctuation of expression including at least one of deletion of redundant white spaces and recovery from omission of a close tag;

an identifier generating step of generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data having been subjected to the canonicalization process in the canonicalization process step; and

an identifier transmitting step of transmitting the identifier having been generated in the identifier generating step-, wherein

a cache preliminarily stores the identifier having been generated by the identifier generating step, in correlation with the document data or a result of a predetermined process on the document data,

wherein an identity determining step performs a search inside the cache on the basis of the identifier of the document data as a target for a determination on identity, which has been

generated by the identifier generating step, determines that there exists identical document data, if the same identifier as the aforementioned identifier is present, and determines that there exists no identical document data, if the same identifier as the aforementioned identifier is absent.

Claim 5 (Currently Amended):   An identifier generating apparatus comprising:

canonicalization process means for subjecting document data to a canonicalization process to correct fluctuation of expression including at least one of deletion of redundant white spaces and recovery from omission of a close tag; and

identifier generating means for generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data having been subjected to the canonicalization process by the canonicalization process means.;

a cache configured to preliminarily store the identifier having been generated by the identifier generating means, in correlation with the document data or a result of a predetermined process on the document data,

wherein an identity determining means is configured to perform a search inside the cache on the basis of the identifier of the document data as a target for a determination on identity, which has been generated by the identifier generating means, determine that there exists identical document data, if the same identifier as the aforementioned identifier is present, and determine that there exists no identical document data, if the same identifier as the aforementioned identifier is absent.

Claim 6 (Original): The identifier generating apparatus according to Claim 5, wherein

the canonicalization process means comprises type standardization process means for, using a

class definition file of the document data describing a definition of a type, standardizing a type of

expression for a value described in the document data, in accordance with the type defined by the

class definition file.

Claim 7 (Original): The identifier generating apparatus according to Claim 6, wherein

the type standardization process means is configured to standardize an accuracy of numerical

data described in the document data, in accordance with a definition of a type for numerical data

described in the class definition file of the document data.

Claim 8 (Original): The identifier generating apparatus according to Claim 5, wherein

the canonicalization process means comprises document data generating means for transforming

first partial data and second partial data into document data in accordance with a predetermined

transformation rule.

Claim 9 (Currently Amended): An identity determining apparatus comprising:

canonicalization process means for subjecting document data to a canonicalization

process to correct fluctuation of expression including at least one of deletion of redundant white

spaces and recovery from omission of a close tag;

identifier generating means for generating an identifier uniquely specifying the document

data or part thereof, based on all or part of the document data having been subjected to the

canonicalization process by the canonicalization process means; ~~and~~

identity determining means for determining whether there is a common portion between

one document data and another document data, based on the identifier having been generated by

the identifier generating means~~;~~; and

a cache preliminarily storing the identifier having been generated by the identifier

generating means, in correlation with the document data or a result of a predetermined process

on the document data,

wherein the identity determining means is configured to:

perform a search inside the cache on the basis of the identifier of the document data as a

target for a determination on identity, which has been generated by the identifier generating

means, determine that there exists identical document data, if the same identifier as the

aforementioned identifier is present, and determine that there exists no identical document data,

if the same identifier as the aforementioned identifier is absent.

Claim 10 (Original): The identity determining apparatus according to Claim 9, wherein

the canonicalization process means comprises type standardization process means for, using a

class definition file of the document data describing a definition of a type, standardizing a type of

expression for a value described in the document data, in accordance with the type defined by the

class definition file.

Claim 11 (Original): The identity determining apparatus according to Claim 10, wherein

the type standardization process means is configured to standardize an accuracy of numerical

data described in the document data, in accordance with a definition of a type for numerical data

described in the class definition file of the document data.

Claim 12 (Original): The identity determining apparatus according to Claim 9, wherein

the canonicalization process means comprises document data generating means for transforming

first partial data and second partial data into document data in accordance with a predetermined

transformation rule.

Claim 13 (Canceled):

Claim 14 (Original): The identity determining apparatus according to Claim 9, further

comprising second identifier generating means for generating an identifier uniquely specifying

the document data or part thereof, based on all or part of the document data, prior to execution of

the canonicalization process by the canonicalization process means,

wherein identity between one document data and another document data is determined on

the basis of the identifier having been generated by the second identifier generating means and

wherein if they are determined not to be identical, the canonicalization process means performs

the canonicalization process of the document data.

Claim 15 (Currently Amended): An identity determining apparatus comprising:

canonicalization process means for subjecting document data to a canonicalization

process to correct fluctuation of expression including at least one of deletion of redundant white

spaces and recovery from omission of a close tag;

identifier generating means for, based on all or part of encoded data of document data,

generating an identifier uniquely specifying the document data or part thereof; ~~and~~

identity determining means for determining whether there exists a common portion

between one document data and another document data, based on the identifier having been

generated by the identifier generating means~~;~~, and

a cache preliminarily storing the identifier having been generated by the identifier

generating means, in correlation with the document data or a result of a predetermined process

on the document data,

wherein the identity determining means is configured to:

perform a search inside the cache on the basis of the identifier of the document data as a

target for a determination on identity, which has been generated by the identifier generating

means, determine that there exists identical document data, if the same identifier as the

aforementioned identifier is present, and determine that there exists no identical document data,

if the same identifier as the aforementioned identifier is absent.

Claim 16 (Original): The identity determining apparatus according to Claim 15, wherein

an instruction to skip a process of decoding the encoded data of the document data is issued

when the identity determining means determines that the two document data are identical.

Claim 17 (Currently Amended): An identifier transmitting apparatus comprising:

canonicalization process means for subjecting document data to a canonicalization

process to correct fluctuation of expression including at least one of deletion of redundant white

spaces and recovery from omission of a close tag;

identifier generating means for generating an identifier uniquely specifying the document

data or part thereof, based on all or part of the document data having been subjected to the

canonicalization process by the canonicalization process means; and

identifier transmitting means for transmitting the identifier having been generated by the

identifier generating means-, and

a cache preliminarily storing the identifier having been generated by the identifier

generating means, in correlation with the document data or a result of a predetermined process

on the document data,

wherein the identity determining means is configured to:

perform a search inside the cache on the basis of the identifier of the document data as a

target for a determination on identity, which has been generated by the identifier generating

means, determine that there exists identical document data, if the same identifier as the

aforementioned identifier is present, and determine that there exists no identical document data,

if the same identifier as the aforementioned identifier is absent.

Claim 18 (Original): The identifier transmitting apparatus according to Claim 17,

wherein the identifier transmitting means comprises transmitted data generating means for

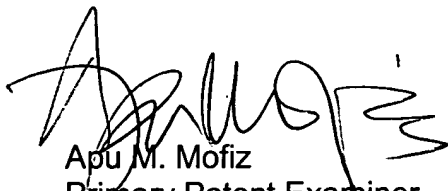generating data obtained by replacing all or part of the document data by the identifier.

Claim 19 (Original): The identifier transmitting apparatus according to Claim 18, wherein the transmitted data generating means is configured to generate transmitted data described by an identifier uniquely specifying partial data included in the document data, and difference data between the partial data and the document data.

Points of Contact

4.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Apu M. Mofiz whose telephone number is (571) 272-4080. The examiner can normally be reached on Monday – Thursday 8:00 A.M. to 4:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached at (571) 272-4146. The fax numbers for the group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

Apu M. Mofiz
Primary Patent Examiner
Technology Center 2100

November 16, 2006